UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,015	10/03/2006	Christophe Maerky	4005-0260PUS1	5273
	7590 04/01/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747		BARRERA, RAMON M		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			2832	
			NOTIFICATION DATE	DELIVERY MODE
			04/01/2008	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary		Application	on No.	Applicant(s)				
		10/540,01	5	MAERKY ET AL.				
		Examiner		Art Unit				
		RAMON N	I. BARRERA	2832				
Period fo	The MAILING DATE of this communication or Reply	on appears on the	cover sheet with the c	orrespondence ac	ldress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR FOR HEVER IS LONGER, FROM THE MAILII nsions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicat poperiod for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF TH CFR 1.136(a). In no even ion. period will apply and wi y statute, cause the app	IIS COMMUNICATION ont, however, may a reply be tin Il expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed on	19 December 2	007					
-	Responsive to communication(s) filed on <u>19 December 2007</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims							
4)⊠	)⊠ Claim(s) <u>1-3</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
·	Claim(s) 1-3 is/are rejected.							
	Claim(s) is/are objected to.							
-	Claim(s) are subject to restriction	and/or election re	equirement.					
Applicat	ion Papers							
	The specification is objected to by the Exa	aminer						
•			objected to by the f	Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.05(a).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
	-	oreian priority un	ter 35 I I S.C. & 119(a)	-(d) or (f)				
•	2)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)⊠ None of:							
۵)	_	iments have bee	n received					
	<ul><li>1. Certified copies of the priority documents have been received.</li><li>2. Certified copies of the priority documents have been received in Application No</li></ul>							
	3. Copies of the certified copies of the priority documents have been received in Application No							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
	w. )							
Attachmen			4) Intension Comment	(DTO 412)				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application								
Paper No(s)/Mail Date 6) Uther:								

Application/Control Number: 10/540,015 Page 2

Art Unit: 2832

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toyota(JP2002130510) in view of Isuzu(JP08004546), both references cited on applicant's IDS.

Toyota disclosed a dual-coil electromagnetic valve actuator having a permanent magnet 38 and an actuator member 24 movable between two extreme positions under the effect of a resilient member (27,28) and two electromagnets each comprising a core having a T-shaped first core portion 33 with a base connected to a central branch with a coil 31 disposed thereabout, the first core portion being placed in a U-shaped second core portion 34 having a base connected to outer branches which extend parallel to the central branch of the first core portion, a permanent magnet 38 being interposed between the base of the first core portion and the base of the second core portion.

Toyota did not disclose wherein the base of the T-shaped first core portion extends so a to co-operate with the outer branches of the U-shaped second core portion to present airgaps of size much smaller than a distance between the base of the T-shaped first core portion and the base of the U-shaped second core portion.

Application/Control Number: 10/540,015 Page 3

Art Unit: 2832

Isuzu disclosed a flux shunting core extension 13 between two core portions for forming a gap much smaller than the distance between the core portions bridged by the permanent magnet for the purpose of preventing demagnetization of the permanent magnet by the coil. Since Isuzu and Toyota are both from the same field of endeavor, the purpose disclosed by Isuzu would have been recognized in the pertinent art of Toyota. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ flux shunting core extensions in Toyota for the purpose of preventing demagnetization of the permanent magnet by the coil.

## Response to Arguments

3. Applicant's arguments filed 12/19/07 have been fully considered but they are not persuasive. Applicant contends a proper combination of the Toyota and Isuzu references would not meet the terms of the present invention. Applicant states he has enclosed a sheet with explanatory figures in support of this assertion. It is noted that said sheet is not presently in the file and therefore can not be specifically addressed by the examiner. However, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). The length of the airgap at issue in the Toyota reference is a result effective variable based on selectable operational parameters. A shorter gap also prevents permanent magnet depolarization. Isuzu discloses these concepts.

Application/Control Number: 10/540,015 Page 4

Art Unit: 2832

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The four cited references, as well as the previously cited Steingroever reference, disclose flux shunting core portions where the base of a T-shaped first core portion extends so as to co-operate with the outer branches of a U-shaped (or cup-shaped) second core portion to present airgaps of size much smaller that a distance between the base of the T-shaped first core portion and the base of the U-shaped second core portion.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAMON M. BARRERA whose telephone number is (571)272-1987. The examiner can normally be reached on Monday through Friday from 11 to 5PM.

Art Unit: 2832

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ramon M Barrera/ Primary Examiner, Art Unit 2832

rmb